

CLAIMS

1           1. Chemiluminescent lighting element, comprising at least  
2 two chambers filled respectively with an oxalate solution and  
3 an activator solution, characterized in that the oxalate  
4 solution takes place in a tight-closed pouch, made of thin  
5 aluminium foil, lined on its interior side by a polymer, said  
6 pouch being a first chamber, being itself enclosed in a tight-  
7 closed pouch, bigger, made of translucent polymeric film,  
8 being a second chamber, containing also the liquid activator  
9 solution.

1           2. Element according to claim 1 in which the polymer  
2 lining the aluminium foil is a polyolefin.

1           3. Element according to claim 1 or 2 in which the outer  
2 pouch consists of two polymeric films sealed together along  
3 their periphery.

1           4. Element according to claim 3 in which one of the two  
2 polymeric films is lined, on its internal side, by a felt or  
3 fabric made of absorbing material and compatible with the  
4 oxalate and activator solutions.

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7 periphery, with injection of oxalate solution inside the  
8 periphery delimited by the sealing,

9 -said pouches sealed and filled in that manner, are  
10 separated by an automated knife and sent one by one, in a  
11 sequential and temporized way, to a second machine which  
12 incorporates them in a pouch of translucent plastic,

13 -said second machine doing the face-to-face positioning  
14 of two tapes of flexible translucent polymer film, unrolled  
15 from storage rolls, and sealed along periphery with insertion  
16 of the aluminium pouch and of the activator solution inside  
17 said periphery, the whole of which being done in a continuous  
18 and temporized way,

19 -the final completed pouches being then either separated  
20 from each other by means of an automated knife into series of  
21 individual pouches, or supplied to end-user as a chain as gone  
22 off from the machine.

1 11. Manufacturing process according to claim 10, in which  
2 one of the two tapes of flexible translucent polymer film is  
3 lined, on the face aimed towards the other polymer tape, by a  
4 tape made of absorbing fiber felt, and is continuously sealed  
5 to the nonlined flexible polymer film tape which faces it.

1 12. Manufacturing process according one of the claim 11

2 or 10, characterized in that, at that moment of inserting the  
3 aluminium pouch and the activator solution, one or several  
4 hard particles are also inserted between the two pouches.

5 The invention relates to a chemiluminescent light element  
6 comprising two chambers, filled respectively with an oxalate  
7 solution (5) and an activator solution. The oxalate solution  
8 is a tight-sealed pouch (1) made of thin aluminum foil (2,3)  
9 lined on its interior side by a polymer, for instance a  
10 polyolefin, and so forms the first chamber. This latter is  
11 enclosed in a bigger tight-sealed pouch (6) made of  
12 translucent polymer film (7,8) forming the second chamber,  
13 which also contains the liquid activator (10). The outer  
14 pouch consists of two polymer films (7,8) sealed together  
15 along their periphery and contain a ball (11) able to pierce  
16 the inner pouch (1) by manual action from the user.